



HOWARD COUNTY PUBLIC WORKS BOARD

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James M. Irvin, Executive Secretary
Jacqueline Somervell, Recording Secretary

Darryl A. Stokes, Chairperson
Mitchell Smith, Jr., Vice Chairperson
Christine M. Carroll, Member
Michael A. Higgins, Member
Lisa S. Spitulnik, Member

Minutes of the Howard County Public Works Board – December 10, 2008

Members present: Darryl Stokes: Mitchell Smith, Jr.: Michael A. Higgins and Lisa S. Spitulnik.

Staff present: James M. Irvin, Executive Secretary; John Seefried, Acting Chief, Construction Inspection Division; Diane Schwarzman, Chief, Traffic Engineering Division; Don Lieu, Chief, Utility Design Division; Tina D. Hackett, Chief, Real Estate Services Division and Jacqueline Somervell, Real Estate Services Division, Department of Public Works.

Mr. Stokes called the meeting to order at approximately 7:30 p.m.

Mr. Stokes welcomed Ms. Lisa S. Spitulnik to the Board.

1. **Approval of minutes:** Mr. Stokes indicated that the first item on the agenda is the approval of the minutes of October 14, 2008. Mr. Stokes asked if there were any questions or concerns from the October 14, 2008 minutes.

Motion: On a motion made by Mr. Higgins and seconded by Mr. Smith, the Board unanimously approved the minutes of October 14, 2008.

2. **Road Acceptance Hearing**

- (a) Subdivision: Fulton Ridge, Lots 1-14 and Non-Buildable Preservation Parcels A, B, C, & D
Agreement No. F-06-111 N/A
Road Names: Fulton Ridge Drive
Petitioner: Fulton Ridge, LLC

Staff Presentation: Ms. Tina Hackett, Chief, Real Estate Services Division, indicated that Fulton Ridge, LLC has presented a petition to the Director of Public Works for the acceptance in fee simple title to Fulton Ridge Drive located in Fulton Ridge, Lots 1-14 and Non-Buildable Preservation Parcels A, B, C, & D. The Bureau of Engineering has inspected the subdivision and certifies that all public improvements have been constructed in accordance with the approved plans and specifications and meets the criteria for acceptance under Section 18.202 of the Howard County Code. The Bureau of Engineering recommends that the public improvements be accepted into the County's system of publicly owned and maintained facilities.

Board Comments: Mr. Stokes asked if there were any outstanding items. Ms. Hackett responded none. Mr. Stokes asked if there were any comments from the Board. There were none. Mr. Stokes asked if there were any comments from the audience.

Public Testimony: None.

Motion: On a motion made by Mr. Smith and seconded by Mr. Higgins, the Board unanimously recommended that the Director of Public Works accept the public improvements located in Fulton Ridge, Lots 1-14 and Non-Buildable Preservation Parcels A, B, C, & D into the County's system of publicly owned and maintained facilities.

- (b) Subdivision: Ilchester Oaks, Lots 1 thru 22 and Open Space Lots 23 thru 26 & Non-Buildable Parcel "A"
Road Agreement No. F-04-036 14-4098-D
Road Names: Ambrosia Drive
Petitioner: Ellicott City Land Holding, Inc.

Staff Presentation: Ms. Hackett indicated that Ellicott City Land Holding, Inc. has presented a petition to the Director of Public Works for the acceptance in fee simple title to Ambrosia Drive located in Ilchester Oaks, Lots 1 thru 22 and Open Space Lots 23 thru 26 & Non-Buildable Parcel "A". The Bureau of Engineering has inspected the subdivision and certifies that all public improvements have been constructed in accordance with the approved plans and specifications and meets the criteria for acceptance under Section 18.202 of the Howard County Code. The Bureau of Engineering recommends that the public improvements be accepted into the County's system of publicly owned and maintained facilities.

Board Comments: Mr. Stokes asked if there were any outstanding items. Ms. Hackett responded none. Mr. Stokes questioned whether the private driveways off of the court met the new criteria for private roads. Ms. Hackett asked if he was referring to the Private Access Place. Mr. Stokes said the private access place at the end of the court that looks like it is providing private access to about four or five homes. Ms. Hackett responded yes it would have had to meet the criteria. Mr. Stokes asked if there were any comments from the Board and the audience. There were none.

Public Testimony: None.

Motion: On a motion made by Ms. Spitulnik and seconded by Mr. Higgins, the Board unanimously recommended that the Director of Public Works accept the public improvements located in Ilchester Oaks, Lots 1 thru 22 and Open Space Lots 23 thru 26 & Non-Buildable Parcel "A" into the County's system of publicly owned and maintained facilities.

3. Amendment to Design Manual Volume III Roads and Bridges

Ms. Diane Schwarzman, Chief, Traffic Engineering Division, stated that the proposed amendment is for Design Manual, Volume III Roads and Bridges. The purpose of the amendment is to clarify the intersection sight distance requirements; to clarify how stopping site distance shall be measured; to clarify certain waivers; and to clarify information required to request a waiver. The amendment does not change any of the engineering factors that are used in the analysis but clarifies the process for the consultants to follow. The way the design manual is written now, sometimes the consultants will not have all of the information or perhaps they may have done the

calculations incorrectly. The amendment clarifies the procedures and reflects the details that Public Works is looking for when we do the review. As a result of the amendment there will be fewer times that the analysis will have to be rejected and resubmitted in the future by the consultants. The amendment will create a more efficient time saving process for everyone. We recommend your approval.

Board Comments: Mr. Stokes asked if there were any questions or concerns from the Board. There were none. Mr. Stokes asked if there were any changes or concerns from the audience.

Public Testimony: None.

Motion: On a motion made by Mr. Smith and seconded by Mr. Higgins, the Board unanimously recommended that the Director of Public Works accept the Amendment to Design Manual Volume III Roads and Bridges.

4. **Proposed Capital Water and Sewer Projects**

Mr. Don Lieu, Chief, Utility Design Division, indicated that the Rockburn Hill Road Routine Water main Extension project has been removed from the agenda. Mrs. Brown, the property owner who requested the project, has indicated that she had work done on her well and no longer wanted it. There is one other property that could have benefitted from the extension, the State of Maryland and the State said that they did not want public water. Therefore, the Rockburn Hill Road Routine Water Main Extension was taken off tonight's agenda.

Mr. Stokes asked if there were any other items that are on this agenda in front of me that have been taken off as well. Mr. Lieu said the remaining ten are still on the agenda.

Mr. Lieu stated the purpose of this presentation is to seek recommendations from the Public Works Board concerning ten new water and sewer capital projects for the upcoming 2010 fiscal year and the ten-year water and sewer capital improvement program.

The user costs associated with the water and sewer extensions are as follows:

Sewer house connection charge	\$ 4,500.00	
Sewer In-Aid-of-Construction charge	\$ 600.00	per in aid unit
Sewer Account Charge	\$ 6.83	per quarter
Sewer use charge	\$ 1.90	per 748 gallons
Water house connection charge	\$ 2,400.00	
Water Meter Setting	\$ 280.00	
Water In-Aid-of-Construction charge	\$ 600.00	per in aid unit
Water Account Charge	\$ 8.94	per quarter
Water use charge	\$ 1.19	per 748 gallons (Winter Rates)
	\$ 1.31	per 748 gallons (Summer Rates)

All user costs noted in the presentation are subject to change each July 1.

(a) S-6271, FY 2010 Deep Run Interceptor Improvements

The first project to be presented is Capital Project S-6271 - Deep Run Interceptor Improvements. The project is for the design and construction of 1,100 linear feet of parallel sewer along Furnace Avenue, a third 150-foot 16-inch siphon under the Patapsco River and junction chambers on the Deep Run Interceptor in the vicinity of the Patapsco River at an estimated cost of \$975,000 to be funded in fiscal year 2010. The project was initiated by the Department of Public Works. The project will provide the additional flow capacity required in the approved 2008 Howard County Master Plan for Water and Sewerage. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area.

Board Comments: Mr. Stokes asked Mr. Lieu to explain the various part of this project, i.e., sewer; siphon, etc. tie into the project. Mr. Lieu said the sewer interceptor is a sewer that receives flow from a collection system. The term interceptor is just a large sewer. The sewer along this portion of the Furnace Avenue ties into the Deep Run Interceptor and it eventually goes under the Patapsco River and ties into the Patapsco interceptor that is owned and operated by Baltimore County. The sewer along Furnace Avenue is at capacity so we need to parallel that portion of it in order to keep the flows within the sewer so it does not flow under pressure or surcharge. The siphon was requested by the Bureau of Utilities to allow them more operational flexibility to be able to get in and maintain the current siphon that is under the river.

Mr. Higgins stated that these questions he will ask for each capital project on the agenda to (1) describe whether or not any private property would be required by any of these projects and (2) indicate if there would be any service interruption to either the road or to existing water supply or existing sewer supply.

Mr. Lieu stated for this project we don't anticipate any disruptions to service. We hope that we can build the parallel sewer within the easements that we have and in the road. At this time we are not sure because we have not really looked to see what other utilities are in the road to insure that we have enough room to build a parallel sewer without acquiring additional properties. At this time we don't anticipate acquiring additional properties for the parallelization. The siphon that is going across the Patapsco River, we will have to get permission from the Department of Natural Resource ("DNR") because it is located within the Patapsco State Park. Mr. Higgins asked if the County foresees any problems with getting permission from DNR. Mr. Lieu indicated that the County has worked with the DNR staff before for other project going through State property. We propose to do directional drilling when we cross the river, so we don't have to open cut it. It is a little easier to do, but we still need permission from the DNR in order to do that. Mr. Higgins asked when you get into Baltimore County how is that connection handled in Baltimore County? Mr. Lieu said there is a junction chamber and a splitting chamber -- those are two vaults that have to be constructed that the siphon actually ties into. Those are rather expensive pieces of infrastructure that we have to build there. They are about a quarter million dollars apiece. Mr. Higgins asked if they are included in this project. Mr. Lieu said yes they are. Mr. Stokes asked if that is on the Baltimore County side. Mr. Lieu said yes.

Mr. Stokes asked regarding the issue around the permits that the timing the project is taking into account the extra time that we have to get to the proper permits. Mr. Lieu stated we anticipate it will take about a 1-year to 1 1/2-year just for permitting. Mr. Stokes stated so the costs we are looking at are really more conceptual costs? Mr. Lieu indicated that the costs are based on the best information that we have now - as we get the surveys done and the subsurface soils investigations completed, we will get a better idea of the costs to actually complete the project.

Mr. Smith asked if there is a limit to the actual amount of property that would be required. Mr. Lieu said a 20-foot wide easement is required and would not take more than what is needed in order to build the sewer. Basically I have a part of the road that I know I have to work with so that is what I'm starting with. If I need to get off the road for any reason, I have the road area plus any additional area contiguous and parallel to the road. The maximum that I would need on private property is a 20-foot wide easement for the length of 1100 feet.

Mr. Stokes asked if there were any questions from the audience. Mr. Stokes stated that the audience should come up to the microphone, identify yourself and you can ask the question.

Public Testimony: Mr. Robert Kummerer asked Mr. Lieu to describe the directional process with regards to the river. What impact will it have on the river? Mr. Lieu responded it is a process where they open up a drill pit on one side of the river and the receiving pit on the other side of the river. It is a piece of pipe that is horizontally directionally drilled and on the surface they have a locator mechanism that guides the drill head, not only in the horizontal but also in the vertical direction. Because it is directionally drilled and it has to be a certain depth, I did contact various directional drilling companies. Even though the sewer itself is only a 150 feet long, in order to get to that depth, they have to go back 100 feet, drop a drilling pit and start the way down. They can only go on a certain slope, as they get to the bottom of the slope it flattens out and they go straight and then have to start coming back up again. They start drilling here and receive it here -- then they come back about 100 feet here and open up two other pits, cut it off, and what is left over is what stays in the ground. That portion will be under the Patapsco River so basically we don't open up the river.

Ms. Cathy Hudson, 6018 Old Lawyers Hill Road, Elkridge stated that Mr. Lieu said we would have to go back 100 feet or further and in looking at the map, it looks like it is down below where houses and business are located -- is that correct or would it be in the backyards of the businesses now. Mr. Lieu said hopefully we will not be directly in front of people's backyards. We will be conscious of where we are when we start because that is part of our construction area. When we are done we will put it back the way it was. If we need a right of access or an easement we will go to the property owner and ask for an easement. We won't go on the property and start digging, without permission. Ms. Hudson stated that on both sides of Furnace Avenue is State parkland, so if you need an easement it would be State parkland. Mr. Lieu stated that if we need an easement in that area, we would get permission from the State. We have not approached the State and asked them for any land - we wouldn't go to the State unless we are sure we need land. Ms. Hudson stated her understanding of the State's process is that you have to show them that you don't have any other alternatives. Have you

looked at other alternatives to this plan? Mr. Lieu responded that the existing sewer is already there and at capacity. It is hard to ask people who are already using it to stop using it. As the sewer ages there is a certain inflow and infiltration component that gets into the sewer. We have to take care of that and tighten up the sewer. In order to do that we have to either have some place to put it in order to get into the sewer to make those repairs or pump around as we are actually getting in there to do that. Paralleling the existing sewer would be the most appropriate things to do.

Motion: On motion made by Mr. Higgins and seconded by Mr. Smith, the Board unanimously recommended approval of Capital Project S-6271, FY 2010 - Deep Run Interceptor Improvements.

(b) S-6272, FY 2010 Cedar Lane Sewer Extension

The second project is Capital Project S-6272 - Cedar Lane Sewer Extension. The project is for the construction of 650 linear feet of sewer to serve the Robinson Nature Center at an estimated cost of \$190,000 to be funded in fiscal year 2010. The project was initiated by the Department of Public Works in conjunction with Capital Project N-3960, the Robinson Nature Center. Sewer service to this portion of Cedar Lane was anticipated to be constructed by a developer as part of the Scotts Glen South subdivision located in the area of Cedar Lane and Freetown Road. Due to economic developments, the construction of the sewer has been delayed. The Robinson Nature Center is scheduled to open in 2010. The capital project is required in order to construct the portion of the sewer needed to allow the Nature Center to open on time. The Robinson Nature Center property is within the Metropolitan District and is eligible for public water and sewer service. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area. There are no easements required for this construction; it is entirely within the roadway.

Board Comments: Ms. Stokes asked since this is an extension for the Robinson Nature Center there would be no disruption of service? Mr. Lieu said there is no other service on this line. We intend to jack and bore across Cedar Lane so there should be very little disruption of traffic. Ms. Spitulnik asked if there was an agreement with the developer so if they do start their project, we can recoup this cost? Mr. Lieu said there is a developer agreement that says they have three years to build this sewer for their project. Mr. Lieu asked do we have a legal right to go back and recoup the cost. Mr. Irvin said this capital project has not been approved; there are still some issues with the design. The developer's system is funded and the property owners are going to pay for it. Mr. Stokes asked if the size of the sewer service would be adequate to handle the entire development plus the Nature Center. Mr. Lieu said, yes. The sewer service will go up to Freetown Road, about half mile north of Harriet Tubman Lane. An 8-inch sewer on minimum slope has sufficient capacity to serve well over 400 homes and there are not 400 homes in this area.

Mr. Stokes asked if there were any questions from the audience.

Public Testimony: None

Motion: On motion made by Ms. Spitulnik and seconded by Mr. Higgins, the Board unanimously recommended approval of Capital Project S-6272, FY 2010 - Cedar Lane

Sewer Extension.

(c) S-6273, FY 2011 Little Patuxent Interceptor Improvements

The third project is Capital Project S-6273 - Little Patuxent Interceptor Improvements. The project is for the repair and relining of 10.5 miles of the original Little Patuxent Interceptor from the Little Patuxent Water Reclamation Plant to MD Route 108. The estimated cost is \$12,000,000 to be funded in FY2011. The project was initiated by the Department of Public Works. The Little Patuxent Interceptor sewer was first constructed in 1966. Preliminary inspection and metering efforts have revealed that portions of the sewer are subject to stream erosion and groundwater infiltration. The County is currently paralleling the existing Little Patuxent Interceptor Sewer to provide capacity for the ultimate projected flows from the sewer service area. After the parallel sewer is completed, flows will be diverted into the new sewer to allow a complete inspection and repair of the existing pipeline. The capital project will reduce groundwater infiltration into the sewer and correct areas affected by stream erosion; thereby extending the useful life of the sewer and protecting the environment. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area. This is a rehab of an existing sewer. We do not anticipate any disruptions to any services nor do we anticipate any additional easement requirements.

Board Comments: Mr. Stokes asked if we can do this within our own easements. Mr. Stokes said you are talking about an extensive amount of property here. Mr. Lieu said right now we are in the process of paralleling 10 ½ miles. That project has been ongoing for about six and a half years. We have acquired easements adjacent to the existing easements for the construction of the parallel sewer. When the parallel sewer is done we will have sufficient easement not only to operate and maintain the new sewer but also to rehab the existing sewer.

Mr. Smith asked if this was a three year project. Mr. Lieu said right now we are anticipating it as a three year project after it is funded. Mr. Lieu said the start date would be fiscal year 2011 which is July 2010. Mr. Smith asked how the \$12,000,000 is going to be phased over the three years. Mr. Lieu responded that the first \$2,000,000 will be for an inspection program. When we start switching the flows over to see the condition of the line. On the estimating list, I assumed that about 60% of the sewer will have to be relined and 40% will have to be rehabbed with the joints redone. Depending on the inspection it may be more or less depending on how we intend to go about the repairs that we need to make. In order to get a price per foot we contacted contractors to determine the costs to do each joint and that is how we projected the cost of \$10,000,000 for the actual refurbishment and \$2,000,000 for the inspection efforts.

Mr. Stokes stated I know we are approving project by project but these are some pretty substantial projects. Maybe this is something that we can consider as a future agenda item. With the size of these projects, three years in nature; primarily using contractors to do the work, whether it is the engineering design or construction - has the Department of Public Works done a "Demand Plan". Essentially over a five-year period of time, looking at the projects, the engineering design and construction resources and assessing whether or not we have the capacity within this region to do these projects

recognizing that Howard County is going to be one of several jurisdictions competing for those same resources. Have we done any type of Demand Planning analysis to really see if that is going to be a problem in getting those resources? Mr. Irvin stated even with the economy there are plenty of resources. People are basically begging for work including consulting engineers. Mr. Lieu said we have a few water projects that we still need to do a large water line down Route 29. Basically they transfer water from one part of the County to another part of the County where the need is actually required. Two summers ago we had water restrictions. If we had the large lines in place we could have more easily shifted the water coming in from Route 40 down to US Route 1 where our US Route 1 supply was shut off. We still have some large water projects that we need to get done in order to get that infrastructure to allow us to shift quantities.

Mr. Stokes said it would still be of interest to him as to what that projection looks like. Since we are under some low economic times, how we are leveraging this opportunity as it pertains to getting some of these contract under long term commitment as opposed to project by project. Mr. Lieu stated that we will be bidding 10.5 miles of interceptor sewer. We are bidding them a month at a time under 11 contracts. The intent was to have them in small enough portions (approximately 5 million dollars) to allow the local contractors to bid. We are receiving anywhere from 11 to 14 bidders. We opened bids today on a project we thought would go for 5 million dollars and the bids came in at 3.5 million, so the bidding climate right now is in the County's favor and right now the contractors need the work. Mr. Stokes asked if there were any questions from the audience.

Public Testimony: Mr. Robert Kummerer, 8943 Good Harvest Court asked Mr. Lieu to describe the relining and joint improvement process and what impact it has on the environment. Mr. Lieu stated the impact to the environment – it will improve the environment. It will seal the sewer to keep any rain from coming in or sewer exfiltrating out of the sewer. The lining process is virtually an inverted sock – you take your sock turn inside out – they push water through it to invert the sock, they heat the water and a resin in the sock that hardens. When it hardens it forms a new pipe within a pipe. The jointing process – sometimes the joints may have lost their integrity. They will go in and repair those joints so there won't be any possibility of groundwater coming in or sewer exfiltrating out of the manholes or exposed joints. The effect on the environment is to prevent any type of pollutants from getting out of the sewer and adversely affecting the streams and groundwater. Mr. Kummerer asked if any digging was involved. Mr. Lieu stated no digging is involved – they go in through the manholes – the joint improvements are done from the inside.

Ms. Cathy Hudson – You will be doing the major parallel system that will take trees down, how will that tie in with this project? I assume you will still need to get entries. Are we looking at 6 years of pathways through there? Will you be restoring it or stabilizing the soils? Mr. Lieu stated that most of the entrances that we are using to access the parallel sewer are off of roadways or existing pathways – we are taking down very little trees in order to actually use the access that we are planning on using. There are trees taken down as part of the construction of the parallel sewer, but we are going through extensive reforestation. One of the reason it has taken three year just to get the permitting - we have been working with Natural Resources, the Corps of Engineers, and the Department of the Environment to ensure that we do all of the

mitigation that is requires of us and making improvements to existing wetlands to offset some of the disturbances we are making. We will be stabilizing as we go. This is a linear construction; we will probably be in one area a month and move to another area. We will be coming back because we have to build the parallel sewer in order to have someplace to put the sewer for us to come back and look at the existing sewer. The relining process is not that evasive – we do it in residential neighborhoods all the time.

Mr. Kummerer – Have you identified what areas will require the relining and what areas will require the parallel development? Mr. Lieu stated no – that is what the study is for. We have to have a parallel line in place in order to get in and inspect the existing line. Without the ability to go in and inspect the existing line, we don't know what we have to do at this time. I made a guess that 60 percent will have to be relined, 40 percent we can possibly get away with by repointing and regrouting the joints – it could be more or less depending on what we find. This sewer has been there for 40 years and we have never had a problem or taken it out of service. The parallel sewer does require extensive digging and taking down some trees. We have worked with the Corps of Engineers, Natural Resources and the Department of the Environment for over 3.5 years to make sure that whatever we did was done with best management practices, that we took the minimum of what needed to be taken down, that we planted more than what we took down.

Mr. Ted Markle, 6281 Amherst Avenue, Columbia, Maryland – How far apart are the joints. Mr. Lieu asked on the existing parallel project or this project? Mr. Markle stated the existing one. Mr. Lieu stated he thinks they are 16 feet concrete sections. Mr. Markle – you aren't going to start this project until the other one is done or are you going to start at the lower end? Mr. Lieu stated we want to wait until most of the parallel project is almost done before diverting the sewer. Mr. Markle – will this be done in stages or all at one time? Mr. Lieu stated as far as the relining there are only two contractors in this area that do relining and there are various contractors that do repointing of the joints. We haven't gotten that far into it to determine how we are going to go about letting the project until we know how much we need to reline, how much do we have to repair, are any repairs required – we don't know until the inspections are completed. Mr. Markle – If you do relining, do you just turn off valves? Mr. Lieu stated it won't be valves, basically in the new line there are junction chambers, so we will sandbag so it doesn't go into the old chambers but diverts to the new line. Mr. Markle, so there will be large trucks coming up to get into the area? Mr. Lieu stated as far as truck traffic, there shouldn't be concrete trucks coming through. We are only going to do the work that is needed.

Mr. Mike Compson, 6629 Carlinda Avenue, Columbia, Maryland – In the backyard you can smell the sewer and every so often the water comes out of the river covers the sewer manholes – will this new process seal that so you don't have this issue? Mr. Lieu said he will have the Bureau of Utilities go out and research to find out why there is a problem and then he will be able to be more specific about answering that question. Right now, we are trying to prevent any possibility of any wastewater getting out of the system. This is one of the reasons we are doing the parallel sewer, but we want to go back in and tighten up this one. Mr. Compson stated from talking with County engineers and staff that bank stabilization is not part of the parallel sewer project, and he is concerned that there will be some erosion problems. Will bank stabilization part of

this project? Mr. Lieu said when we are done with the construction of the sewer; we want to make sure that we are not creating any erosion problems. Mr. Compson said he has trees in the area that will be removed as part of the parallel sewer – once you remove them the bank is exposed – that is why he is concerned.

Motion: On motion made by Mr. Higgins and seconded by Ms. Spitulnik, the Board unanimously recommended approval of Capital Project S-6273, FY 2011 Little Patuxent Interceptor Improvements.

(d) S-6274, FY 2015 Upper Little Patuxent Parallel Sewer

The fourth project is Capital Project S-6274 - Upper Little Patuxent Parallel Sewer. The project is for the design and construction of 2,000 linear feet of parallel sewer, adjacent to the Little Patuxent Interceptor, north of MD Route 108. The estimated project cost is \$1,500,000 to be funded in FY2015. The project was initiated by the Department of Public Works. The project is required to provide for adequate sewer capacity in the Little Patuxent Interceptor Sewer between MD Route 108 and the confluence with the Plum Tree Branch Sewer. Computer modeling based on population projections from the Department of Planning and Zoning have indicated that 2,000 feet of the existing Little Patuxent Interceptor north of MD Route 108 will flow surcharged by the year 2020. The project is necessary in order to provide adequate capacity for the projected wastewater flows. The project will prevent overflows of the sewer system and protect the environment of the River. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area. This project will require acquisition of easement. It will not interrupt any existing sewer services. We are asking for the funds in 2015 even though the sewer is not required until 2020 that five year buffer is to allow us to get the easements and permits in order to build the sewer.

Board Comments: Mr. Higgins stated we just heard comments on a similar project where the property owners are concerned with the effect of the construction on the stream banks and back side of their property and trees. I do hope that the designers will be alerted to be particularly not only with the design of the sewer but the condition of the stream or restoration or even the improvement to the stream. Do you have any meetings plan where the property owner will be able to review the design drawings and talk to the design engineers? Mr. Lieu stated with the current Little Patuxent parallel sewer will did have public hearings show the design. When we have to acquire easements, we meet with the property owners personally to show them the design. One of the first things that we look at is to minimize the easement that we need to acquire – so we look at the easement that we already have and tack on to that. This is so we don't have to take a 30 or 40 foot easement – we will tack on to the existing to try and minimize the take. We are under constraints with the Corps, Natural Resources, etc. as to where we can go – so it's a balancing act. One of the important pieces is the needs of the property owners – how can we least impact them while meeting all of the rest of the requirements that we need to address.

Public Testimony: Mr. David Lyle, 4666 Woodland Road, Ellicott City, Maryland - It looks like it is on the east side and not the west side you are planning on putting this sewer? Mr. Lieu said there is not a location yet, he just struck a line on the map. Mr.

Lyle why is the line going on the west side is all properties; the east side has a bike trail and is already County property. He is also concerned about trees and erosion. Mr. Lieu stated that before we start the design we will research property owner, where should the sewer be located – if the County owns everything on the east side that would be preferable than having to get easements from the public.

Ms. Cathy Hudson stated that one of the reasons she came tonight because this week is the 25th anniversary of the Chesapeake Bay agreements and we are far worse than we have ever been. We sit here and look at the sewer projects and the three causes of problems in the Chesapeake Bay are nitrogen, phosphorus and sediment. We are running our sewer projects through the stream beds, we are dumping our affluent in the Chesapeake Bay and I say what I can do and what you can do. As a Board you are spending millions of dollars and are there better ways to spend that money than sending our affluent down the river to the Chesapeake Bay. Can it be going into tax savings incentives to people, can it be going into retrofits for low flush – can we start dreaming because what we are doing now isn't working. I would just ask you to ponder that because you have some power within you to make changes. Mr. Smith asked if Ms. Hudson has any specific recommendations. Ms. Hudson said we need the officials who understand the process – allowing compost toilets, how can we lessen the water going into these and how can we take more out – we need a community discussion.

Motion: On motion made by Mr. Smith and seconded by Mr. Higgins, the Board unanimously recommended approval of Capital Project S-6274, FY 2015 - Upper Little Patuxent Parallel Sewer

(e) W-8295, FY 2010 Glen Oaks Water Main Loop

The fifth project is Capital Project W-8295 - Glen Oaks Water Main Loop. The project consists of the design and construction of 250 linear feet of 8-inch water main connecting the water main in Glen Oaks Lane to the water main in Guilford Road north of I-95. The estimated project cost is \$100,000 to be funded in fiscal year 2010. The project was initiated by the Department of Public Works. The project will connect 2 dead end water mains and provide additional operational flexibility for maintaining water service to numerous properties on both the north and south sides of I-95 in the Savage Guilford area in the event of a water main break. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area. There will not be any easements required for this construction and we don't see any disruption to public water sewer.

Board Comments: Mr. Stokes asked the Board if there were any questions. There were none.

Public Testimony: None

Motion: On motion made by Ms. Spitulnik and seconded by Mr. Smith, the Board unanimously recommended approval of Capital Project W-8295, FY 2010 - Glen Oaks Water Main Loop.

(f) W-8296, FY 2010 US29 Water Main, Md108 To Brokenland Parkway

The sixth project is Capital Project W-8296 - US 29 Water Main from MD 108 to Brokenland Parkway. The project is for the design and construction of 18,000 linear feet of 36-inch water main parallel to US 29 from MD Route 32 to Brokenland Parkway. The project estimated cost is \$21,500,000 to be funded in 2010. The project was initiated by the Department of Public Works. The project will provide additional hydraulic capacity and increased water supply to the 3 million gallon Scaggsville Elevated Water Tank. The improvement is part of the County's major backbone water system, providing water to the upper 630 and 730 zones as well as to the lower 400 zone. The improvement is required under the 2008 Howard County Master Plan for Water and Sewerage and is needed to provide for adequate domestic water supply and fire protection for the County. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area. The map shows a schematic – we don't have a detail plan as to where this main will be located. Easements will be required from individual property owners as we get further into the study.

Board Comments: Mr. Stokes asked how long the study would take. Mr. Lieu stated probably after the funding approximately 6 months to a year depending on what we find. Mr. Higgins, the new line will it connect to existing lines? Mr. Lieu yes, it is connecting to existing lines – this is only part of what we need. There is a series of water mains that are on the books that we will need to build in the next ten years – this is only part of it. Mr. Higgins, once this line is built is it put into service immediately. Mr. Lieu stated yes. Mr. Higgins, where does the State Highway Administration fall into this – are they usually cooperative with this. Mr. Lieu stated that the State Highway Administration normally doesn't allow parallel occupancy – we need to get out of the State's right-of-way. If we show them that we have no other option – they will consider allowing us to work in their through highway.

Public Testimony: Mr. Ted Markle – this sheet says 2010 is that for the year starting in July, 2009? Mr. Lieu said yes. Mr. Markle - It seems like the year on these project it is years before they actually get done. The other two projects will be done before this? Mr. Lieu said one won't be funded until 2015. Mr. Lieu stated that the current Little Patuxent Project is being bid now. Mr. Markle – will most of those contracts be done by 2009. Mr. Lieu stated no most of those will be completed in calendar year 2010. Mr. Markle's point is that you are going to have 2 or 3 contractors building at one time. Mr. Lieu stated that we won't have these projects under construction at the same time. After the projects are funded, they first have to be designed before going to construction.

Mr. Stokes suggested that Mr. Lieu prepare a chart to show how the projects will be done, to show if there is overlapping of construction. Mr. Lieu stated we do have those charts made up with the construction schedule. Mr. Stokes also suggested community outreach to give the community an idea of what is happening. Ms. Spitulnik says there is a County website you can go to that shows you construction activity in your community.

Motion: On motion made by Mr. Higgins and seconded by Mr. Smith, the Board

unanimously recommended approval of Capital Project W-8296, FY 2010 - US29 Water Main, Md 108 to Brokenland Parkway.

(g) W-8297, FY 2010 - Kindler Road Water Main

The seventh project is W-8297 - Kindler Road Water Main. The project consists of the design and construction of 3,100 linear feet of 12-inch water main on Kindler Road from First League to Woodstream Way. The project estimated cost is \$1,100,000 to be funded in fiscal year 2010. The project was initiated by the Department of Public Works. The project will loop the water system in the area and provide a redundant water supply to the 3MG Scaggsville Elevated Water Tank. The improvement is required under the 2008 Howard County Master Plan for Water and Sewerage and is needed to provide for adequate domestic water supply and fire protection. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area. This project will require easements in order to build this water line. We do not anticipate any disruption to water service when we tie in to the existing main.

Board Comments: Mr. Stokes asked if the easement that is needed will be going through private property and the Little Patuxent. Mr. Lieu stated that a majority of the property is owned by the County as open space. Mr. Stokes asked if there were any other questions from the Board. There were none.

Public Testimony: Mr. Gary Patt, 7402 First League, Columbia, Maryland – stated his concern with the impact to the homeowners, i.e., construction activity, vehicles, noise, etc. Mr. Lieu stated that the construction of the water line is linear construction so the 3000 feet of water main will take approximately 3 months to construct. It is not confined to one area – it is moving as they go. Hopefully, the impact in front of your home will be minimal – not the entire 3 months. Normally on a 12-inch water main, the contractor can put in 100 feet a day – so that will give some idea of how quickly they can move. Most of the construction will be open cut – they drop the trench box in, straddle the trench, take a backhoe dig up the dirt, put the dirt on one side, the pipe on the other, put it in the trench, backfill and move on. The only part they may horizontally drill is the part of the river and that again is a concession not to disturb the river banks and bottom.

Motion: On motion made by Ms. Spitulnik and seconded by Mr. Higgins, the Board unanimously recommended approval of Capital Project W-8297, FY 2010 - Kindler Road Water Main.

(h) W-8298, FY 2010 Guilford Road Water Main Loop

The eighth project is Capital Project W-8298 - the Guilford Road Water Main Loop. The project is for the design and construction of 820 linear feet of 12-inch water main along Guilford Road from South Trotter Road to Walter Scott Way. The estimated project cost is \$350,000 to be funded in fiscal year 2010. The project was initiated by the Department of Public Works. The project will complete the water system loop in this area connecting the water systems and providing a supply redundancy across MD Route 32. The improvement is required under the 2008 Howard County Master Plan for Water and Sewerage and is needed to provide for adequate domestic water supply and

fire protection. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area. This will not require any easement or disrupt any existing water service. We hope do this work in the bed of the road.

Board Comments: Mr. Stokes stated this is a case of just looping the two systems. Mr. Stokes questioned why when the development was constructed the system was connected. Mr. Irvin stated that it is a school site. Mr. Stokes asked if there were any other questions from the Board. There were none.

Public Testimony: None

Motion: On motion made by Mr. Smith and seconded by Ms. Spitulnik, the Board unanimously recommended approval of Capital Project W-8298, FY 2010 Guilford Road Water Main Loop.

(i) W-8299, FY 2011- Pine Orchard Pumping Station Improvements

The ninth project is Capital Project W-8299 - the Pine Orchard Pumping Station Improvements. The project is estimated at \$1,000,000 to be funded in fiscal year 2011. The project was initiated by the Department of Public Works. The Pumping Station was constructed in 1989. The project will increase the pumping capacity at the Pine Orchard Water Pumping Station by adding an additional pump and upgrading the existing pumps, motors and controls. The improvement is required under the 2008 Howard County Master Plan for Water and Sewerage and is needed to provide for adequate domestic water supply and fire protection in the elevation 630 water zone. The Pine Orchard Station also supplies water to the elevation 730 zone, functioning as the water supply source to the Marriottsville/Fredrick Road Pumping Station. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area.

The station is 20 years old and has undergone some routine maintenance but no major over haul. The equipment is such that you can't get parts for it. We need to change out the pumps, the variable frequency drives, controls, etc. – just to keep it current.

Board Comments: Mr. Stokes asked if this is a case where we are taking out the old and putting in new equipment. Mr. Lieu stated we not only putting in new equipment we are also increasing the capacity of the station. Mr. Stokes questioned the electricity. Mr. Lieu stated that will also change because what is there is 20 years old. We need to see what we need to upgrade as far as power supply. Adjacent property owners have asked that the outside be improved and we will be doing that also. Mr. Higgins asked if there are any noise issues related to pump stations. Mr. Lieu stated that there is a standby generator that is exercised each week but, other than that, normally on the pump stations you can't hear the pumps run. Mr. Stokes asked if there were any other questions from the Board. There were none.

Public Testimony: None

Motion: On motion made by Ms. Spitulnik and seconded by Mr. Higgins, the Board

unanimously recommended approval of Capital Project W-8299, FY 2011 - Pine Orchard Pumping Station Improvements.

(j) W-8300, FY 2011 Levering Avenue Water Main


The tenth project is Capital Project W-8300, the Levering Avenue Water Main. The project consists of the design and construction of 3,900 linear feet of 12-inch water main in Levering Avenue from River Road to US Route 1. The estimated project cost is \$1,370,000 to be funded in fiscal year 2011. The project was initiated by the Department of Public Works. There is currently a single 12-inch water main conveying water from Baltimore City's Gun Road water supply into Howard County. Increases in Howard County's water demands over the last 40 years and the anticipated growth in the elevation 400 Water Zone will produce excessive velocities and head losses in the existing main. The parallel transmission main will reduce the velocities in the system, insure a redundant water supply and increase the reliability of the water system in the elevation 400 water zone. The improvement is required under the 2008 Howard County Master Plan for Water and Sewerage and is needed to provide for adequate domestic water supply and fire protection. Interested property owners were notified of tonight's meeting by advertisement in local newspapers and by postings in the project area. We will need permission from the park because part of the main is in the Patapsco State Park. We believe we can build the rest of the main in Levering Avenue without any easements. The existing line was built 40 years ago. The demands are such that the velocities are so high right now that a sudden stoppage in that line can actually split the line by generating a water hammer through the line – it lays the line open. The parallel line will reduce those velocities and protect the line and ensure that we have a reliable water supply from Baltimore City.

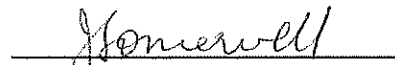
Board Comments: Mr. Stokes asked what other supply lines do we have. Mr. Lieu stated we have a 36-inch that comes across the river (Mr. Lieu pointed it out on the map), we have the Gun Road supply line and two other supply lines coming down U.S. Route 40. Mr. Stokes asked if the other lines are serving different systems. Mr. Lieu stated that the two lines coming down Rt. 40 serve the 550 Zone, which is the backbone of our system. From there it is pumped to the 630 Zone and the 730 Zone and also takes it down to the 400 Zone. The Gun Road supply comes into the 550 Zone and gets reduced to the 400 Zone.

Public Testimony: None

Motion: On motion made by Mr. Smith and seconded by Ms. Spitulnik, the Board unanimously recommended approval of Capital Project W-8300, FY 2011 - Levering Avenue Water Main.

There being no further business, the Public Works Board meeting adjourned at approximately 9:05 p.m.


James M. Irvin,
Executive Secretary


Jacqueline Somervell
Recording Secretary